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University Honors Program Newsletter

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Buffering... Re... search



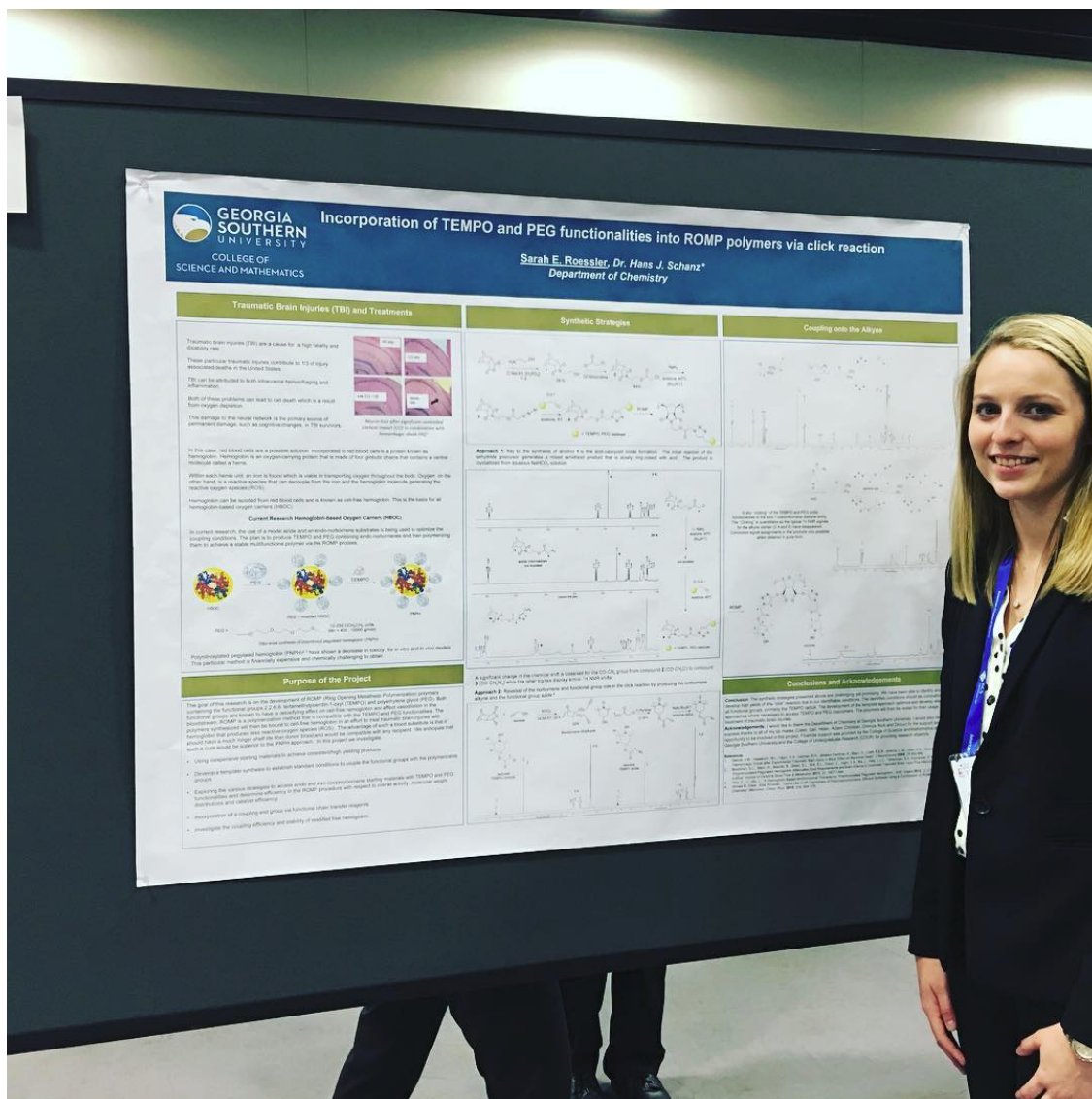
Collin Daly shows off his award with his faculty mentor Dr. Rami Haddad

Collin Daly's (electrical engineering '16) honors thesis deals with a problem we have all encountered—video buffering on the Internet. Many Netflix binges have been interrupted due to that pesky rotating circle, signifying a discrepancy between the bandwidth needed to play the video and the bandwidth that's actually available, but Daly's research strives to find a solution. His thesis, entitled "Predicting H.265 Video Traffic Using Neural Networks," deals with using artificial neural networks to replicate the way the mind solves a problem in order to predict the amount of networking

space the bandwidth requires to stream high-definition video. Surprisingly, this field of research is still in its nascent stages.

Click [here](#) to read more!

Searching for Blood Substitutes



Roessler showcasing her research at the American Chemical Society National Meeting & Exposition in San Diego, California

Sarah Roessler (chemistry '16) is on the leading edge of the search for blood substitutes administered in treating traumatic injuries. Her research on click reactions in certain polymers used in these substitutes is the focus of her thesis and a recent presentation at the American Chemical Society (ACS) in San Diego.

Roessler's poster presentation in the Chemical Education Division (CHED) provided an overview of her research project, titled "Incorporation of TEMPO and PEG functionalities into ROMP polymers via click reaction."

Click [here](#) to read more!

Theis Wins First Place



Riley Theis delivering her talk for the National American Chemistry Society

When we last caught up with senior chemistry major Riley Theis, she had just returned from Boston, where she presented her research on noble gases and their ability to forge molecular bonds for the National American Chemistry Society (NACS). This past February, Theis had the opportunity to showcase her findings at another conference. The Southeastern Undergraduate Research Conference (SURC), held at Georgia State University, brought in ninety-five talented students from across the Southeastern United States. Theis rose to the top of the group, taking home first place for best research talk. She once again focused on bonds between noble gases, delivering her presentation with energy and excitement.

"Having the opportunity to speak at SURC was very nerve-wracking for me because I had never spoken in front of such a large crowd," said Theis. "However, it was truly gratifying to know that people took interest in my research and appreciated all my hard work."

Shaffer RISEs to the Occasion



Jenny Shaffer taking a break from research to appreciate the stunning architecture of Germany

Jenny Shaffer (German/ mechanical engineering '17) spent the past two summers in Germany, studying abroad during her first trip and interning at Ruhr-Universität following her sophomore year, and this summer she will return yet again for another research opportunity.

"This program is slightly different in nature than the one I participated in last summer," said Shaffer, "although both are in the field of materials science."

Through the DAAD RISE Professional Program, Shaffer received an internship with

Bosch, a multinational engineering and electronics company, in Stuttgart, Germany. Shaffer's position will require her to investigate the effects of environmental load and design geometry on localized corrosion behavior of aluminum and aluminum-alloy automotive parts.

Shaffer said, "I'm really excited to get to work with such a well-known company in the automotive field."

Honors Alumni are encouraged to update their information here!



The Georgia Southern University Honors Program is designed to foster the development of a critical sense of inquiry, a spirit of creativity, a global perspective and an ethic of civic responsibility. With your investment, the University Honors Program will continue to enrich the lives of students at Georgia Southern University.

Another Successful Year at Camp



The Honors Alternative Break Trip to Camp Twin Lakes to work with Camp Blue Skies was once again a great success. Dr. Jerri Kropp and Dr. Brent Wolfe brought 20 students to camp to help create a fun-filled week for the campers. Several of the 20 were returning students and the group was joined by alumni from past years' trips. This was the sixth year of the trip and plans are already being made for next year.

Project Pura Vida!



The second annual Honors Alternative Break Trip to Costa Rica saw six students join Dra. Leticia McGrath in a week of service with the Costa Rican Humanitarian Foundation. Students worked in La Carpio on renovation and painting projects. Pictured above, they are learning about the history of La Carpio from CRHF founder Gail Nystrom.



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